Notice of Allowability	Application No.	Applicant(s)	
	09/874,283	KUDO ET AL.	
	Examiner	Art Unit	
	VAN H. NGUYEN	2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the appeal brief filed 12/10/2008 and the telephonic interview on 03/27/2009*.

2. ☒ The allowed claim(s) is/are *4, 6, 8, 10, 14, and 16 (now renumbered as claims 1-6)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

   Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
   THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20090327* .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This communication is responsive to the appeal brief filed 12/10/2008 and the telephonic interview on 03/27/2009.

Claims 4, 6, 8, 10, 14, and 16 have been examined and allowed.

2. **EXAMINER'S AMENDMENT:**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul W. Bobowiec (Registration No. 47,431) on 03/27/2009.

The application has been amended as follows:
In the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1.-3. (CANCELLED)

4. (CURRENTLY AMENDED) A data perpetuation object ~~apparatus~~ between information processing systems for performing unified management of data managed in duplicate by a plurality of information processing including an information processing system based on different architectures, the data perpetuation object ~~apparatus~~ stored in a computer-readable recording medium and being implemented as an object to be operated singly, [[and]] the data perpetuation object comprising:

an information identification object generating part that generates an information identification object that determines information to be stored in a storage apparatus of each information processing system;

a collaboration information storage that stores information on a communication method between the information processing systems as collaboration information among the plurality of information processing systems;

a role object generating part that generates a role object as an active role with respect to an information processing system that is a data transmission origin, and a role object as a passive role with respect to an information processing system that is a data transmission destination; and

a relating object generating part that refers to the collaboration information of the collaboration information storage and generating a relating object for transmitting

information to be stored in a storage apparatus of each information processing system between the role objects, in accordance with a communication method between the information processing system that is [[a]] the data transmission origin and the information processing system that is [[a]] the data transmission destination.

5. (CANCELLED)

6. (CURRENTLY AMENDED) [[A]] The data perpetuation object ~~collaboration apparatus~~ between information processing systems according to claim 4, wherein the communication method is selected from a plurality of kinds of communication methods including real communication, delayed batch communication, and batch communication.

7. (CANCELLED)

8. (CURRENTLY AMENDED) An integrated information processing system including a plurality of information processing subsystems, the plurality of information processing subsystems including an information processing subsystem based on different architectures, the integrated information processing system including a processor and comprising:

a collaboration information storage that stores information on a communication method between the information processing subsystems as collaboration information among the plurality of information processing subsystems; and

a data perpetuation object ~~apparatus~~ between the information processing subsystems ~~for referring~~ that refers to the collaboration information of the collaboration information storage and ~~performing~~ that performs unified management of data managed in duplicate by the information processing subsystem, the data perpetuation object apparatus being implemented as an object to be operated singly, and comprising:

an information identification object generating part that generates an information identification object that determines information to be stored in a storage apparatus of each information processing subsystem;

a role object generating part for generating a role object as an active role with respect to ~~information processing part~~ an information processing subsystem that is a data transmission origin, and a role object as a passive role with respect to ~~information processing part~~ an information processing subsystem that is a data transmission destination; and

a relating object generating part that refers to the collaboration information of the collaboration information storage and ~~generating~~ generates a relating object for transmitting information to be stored in a storage apparatus of each information processing subsystem between the role objects in accordance with a communication system between the information processing subsystem that is [[a]] the data transmission origin and the information processing subsystem that is [[a]] the data transmission destination.

9. (CANCELLED)

10. (CURRENTLY AMENDED) A computer-readable recording medium storing a collaboration program between information processing systems that allows a computer to execute, as a data perpetuation object to be operated singly, processing of performing unified management of data managed in duplicate by a plurality of information processing systems including an information processing system based on different architectures, the collaboration program allowing [[a]] the computer to execute:

processing of generating an information identification object that determines information to be stored in a storage apparatus of each information processing system of the information processing systems;

processing of generating a role object as an active role with respect to an information processing system that is a data transmission origin, and generating a role object as a passive role with respect to an information processing system that is a data transmission destination; and

processing of referring to collaboration information including information on a communication method between the information processing ~~system~~ systems and generating a relating object for transmitting information to be stored in a storage apparatus of each information processing system between the role objects in accordance with the communication method between the information processing system that is [[a]] the data transmission origin, and the information processing system that is [[a]] the data transmission destination.

11.-13. (CANCELLED)

14. (CURRENTLY AMENDED) A method of performing unified management of data managed in duplicate by a plurality of information ~~processors~~ systems based on different architecture, the method being carried out by a data perpetuation object to be operated singly, and comprising:

generating an information identification object that determines information to be stored in a storage apparatus of each of the plurality of information ~~processors~~ systems;

~~referring to collaboration information including information on a communication method between the information processors and generating a role object as an active role with respect to an information processor that is a data transmission origin, and a role object as a passive role with respect to an information processor that is a data transmission destination; and~~

~~referring to the stored collaboration information and generating a relating object for transmitting information to be stored in each of the information processors between the role objects, in accordance with a communication method between the information processor that is a data transmission origin and the information processor that is a data transmission destination~~

storing information on a communication method between the information processing systems as collaboration information among the plurality of information processing systems;

generating a role object as an active role with respect to an information processing system that is a data transmission origin, and a role object as a passive role with respect to an information processing system that is a data transmission destination; and

referring to the collaboration information of the collaboration information storage and generating a relating object for transmitting information to be stored in a storage apparatus of each information processing system between the role objects, in accordance with a communication method between the information processing system that is the data transmission origin and the information processing system that is the data transmission destination.

15. (CANCELLED)

16. (PREVIOUSLY PRESENTED) The method according to claim 14, wherein the communication method is selected from a plurality of kinds of communication methods including real communication, delayed batch communication, and batch communication.

17.-27. (CANCELLED)

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM - 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MENG-AI AN can be reached at (571) 272-3756.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VAN H NGUYEN/

Primary Examiner, Art Unit 2194